

Product datasheet for **RG213740**

RAB3IP (NM_175624) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3IP (NM_175624) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAB3IP
Synonyms:	RABIN3; RABIN8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213740 representing NM_175624 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAATGATCCCTTGAAGGCTTCCATGAAGTAAACCTTGCTTCACCTACTTCTCCGGACCTTCTTG
GTGTGTATGAATCAGGAACCAAGAGCAGACTACCTACCAAGTGTATCTACCGCCACACCCCTCAGC
TTTATCCTCTGTACCTATCCAGGCAAATGCATTAGATGTTTCTGAACTTCTACACAACCCGTGATTCA
TCCCCAGACGTTTAAATTGTGCGGAAATCTAGTATCAGCTTTCATGTTACAGACCCAGCCCTTGCT
CTACCTCTGGAGTCACAGCTGGATTAACATAAATAACTACAAGAAAGGACAATAATGCAGAGAGAGA
GTTTTTACAGGGTGTACTATAACAGAGGCTTGGATGGCAGTGATGATATTTTTGGGTTGAGTACTGAT
AGTCTGTCTCGTTTACGAAGCCATCTGTTTTGGAAGTTAGAGAAAAGGGCTATGAACGATTAAGAAG
AACTCGCAAAAGCTCAGAGGGAACCTGAAGTAAAAGATGAAGAATGTGAGAGGCTTTCAAAAGTGCAGAGA
TCAACTTGGACAGGAATTGGAAGAATCACAGCTAGTCTATTTGAGGAAGCTCATAAAATGGTGAGAGAA
GCAAATATCAAGCAGGCAACAGCAGAAAAACAGCTAAAAGAAGCACAAGGAAAAATTGATGTACTTCAAG
CTGAAGTAGCTGCATTGAAGACACTTGTATTGTCCAGTTCTCAACATCACCTACGCAGGAGCCTTTGCC
AGGTGGAAGACACCTTTTAAAAAGGGGCATACAAGAAATAAAGCACAAGCAGTGTCTATGAGTGGCAGT
CATCAGGACCTCAGTGTGATACAGCCAATTGAAAAGACTGCAAAGAGGCTGACTTATCCTTGTATAATG
AATTCGATTGTGAAGGATGAGCCACAATGGACAGGAGTGTCTTTCTTAGACAAAAATCTACCAGGA
AGATATCTTTCCATGTTTAACTTCTCAAAAAGTGAAGTTGGCTTCAAGCTGTTCTGGAGGCTGTGAAAAAC
AATACTCTAAGCATTGAACAGTGGATTACAACCTATCCGGTTTGTGAAAGCTTCTGCAGTTGAATGCG
GAGGACCAAAATCACTTCTGTATGTAACTTTTTACATACATTTCGATACATTCAGCAGGGACTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213740 representing NM_175624
 Red=Cloning site Green=Tags(s)

MANDPLEGFHEVNLASPTSPDLLGVYESGTQEQTTPSPSVIYRPHPSALSSVPIQANALDVSELPTQPVYS
 SPRRLNCAEISSISFHVTDPA PCSTSGVTAGLTKLTTRKDNNAEREF LQGATITEACDGSDDIFGLSTD
 SL SRLRSPSVLEVREKGYERLKEELAKAQRELKLDKEECERLSKVRDQLGQEELEELTASLFEEAHKVMRE
 ANIKQATAEKQLKEAQGIDVLQAEVAALKTLVLSSTPTPTQEPLPGGKTPFKKGHTRNKSTSSAMSGS
 HQDLSVIQPIVKDCKEADLSLYNEFRLWKDEPTMDRTCPLDKIYQEDIFPCLTFKSELASAVLEAVEN
 NTL SIEPVGLQPIRFVKASAVECGGPKSLLYVTF LHTFDTF SRDS

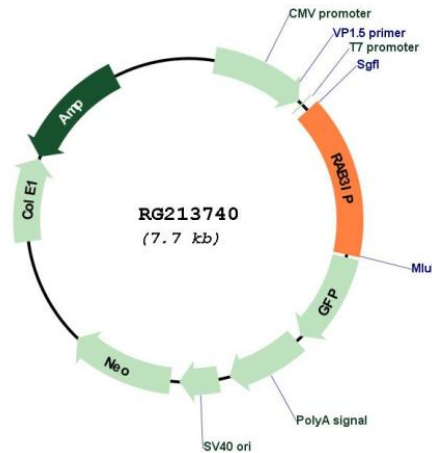
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_175624

ORF Size:	1185 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_175624.4
RefSeq Size:	1755 bp
RefSeq ORF:	1188 bp
Locus ID:	117177
UniProt ID:	Q96QF0
Cytogenetics:	12q15
Gene Summary:	Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5. Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface. Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis.[UniProtKB/Swiss-Prot Function]